

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/618,934 B  
Source: TFW/6  
Date Processed by STIC: 12/26/2006

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 12/26/2006

PATENT APPLICATION: US/10/618,934B

TIME: 13:49:34

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF4\12262006\J618934B.raw

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3 <110> APPLICANT: Sierkstra, Laurens Nicolaas
4      Klugkist, Jan
5      Markvardsen, Peter
6      Von der Osten, Claus
7      Bauditz, Peter
9 <120> TITLE OF INVENTION: Protease Variants and Compositions
11 <130> FILE REFERENCE: 4322.230-US
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/618,934B
C--> 13 <141> CURRENT FILING DATE: 2003-07-14
13 <160> NUMBER OF SEQ ID NOS: 41
15 <170> SOFTWARE: PatentIn version 3.3
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 39
19 <212> TYPE: DNA
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: Synthetic
25 <400> SEQUENCE: 1
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30 <211> LENGTH: 41
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Synthetic
37 <400> SEQUENCE: 2
38 gtccacgtcc gagttagtcg ataggccgcg agatacgctt g      41
41 <210> SEQ ID NO: 3
42 <211> LENGTH: 39
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: Synthetic
49 <400> SEQUENCE: 3
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53 <210> SEQ ID NO: 4
54 <211> LENGTH: 41
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: Synthetic
61 <400> SEQUENCE: 4
62 gtccacgtcc gagttagtcg ataggccgct agatacgctt g      41

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65 <210> SEQ ID NO: 5
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67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Synthetic
73 <400> SEQUENCE: 5
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77 <210> SEQ ID NO: 6
78 <211> LENGTH: 38
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Synthetic
85 <400> SEQUENCE: 6
86 aacatggtcc ccttggcggc tgagttctac ccttaccc      38
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 275
91 <212> TYPE: PRT
92 <213> ORGANISM: Bacillus amyloliquefaciens
94 <400> SEQUENCE: 7
96 Ala Gln Ser Val Pro Tyr Gly Val Ser Gln Ile Lys Ala Pro Ala Leu
97 1          5          10          15
100 His Ser Gln Gly Tyr Thr Gly Ser Asn Val Lys Val Ala Val Ile Asp
101          20          25          30
104 Ser Gly Ile Asp Ser Ser His Pro Asp Leu Lys Val Ala Gly Gly Ala
105          35          40          45
108 Ser Met Val Pro Ser Glu Thr Asn Pro Phe Gln Asp Asn Asn Ser His
109          50          55          60
112 Gly Thr His Val Ala Gly Thr Val Ala Ala Leu Asn Asn Ser Ile Gly
113 65          70          75          80
116 Val Leu Gly Val Ala Pro Ser Ala Ser Leu Tyr Ala Val Lys Val Leu
117          85          90          95
120 Gly Ala Asp Gly Ser Gly Gln Tyr Ser Trp Ile Ile Asn Gly Ile Glu
121          100         105         110
124 Trp Ala Ile Ala Asn Asn Met Asp Val Ile Asn Met Ser Leu Gly Gly
125          115         120         125
128 Pro Ser Gly Ser Ala Ala Leu Lys Ala Ala Val Asp Lys Ala Val Ala
129          130         135         140
132 Ser Gly Val Val Val Val Ala Ala Ala Gly Asn Glu Gly Thr Ser Gly
133 145          150          155          160
136 Ser Ser Ser Thr Val Gly Tyr Pro Gly Lys Tyr Pro Ser Val Ile Ala
137          165          170          175
140 Val Gly Ala Val Asp Ser Ser Asn Gln Arg Ala Ser Phe Ser Ser Val
141          180          185          190
144 Gly Pro Glu Leu Asp Val Met Ala Pro Gly Val Ser Ile Gln Ser Thr
145          195          200          205
148 Leu Pro Gly Asn Lys Tyr Gly Ala Tyr Asn Gly Thr Ser Met Ala Ser
149          210          215          220

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152 Pro His Val Ala Gly Ala Ala Ala Leu Ile Leu Ser Lys His Pro Asn
153 225                230                235                240
156 Trp Thr Asn Thr Gln Val Arg Ser Ser Leu Glu Asn Thr Thr Thr Lys
157                245                250                255
160 Leu Gly Asp Ser Phe Tyr Tyr Gly Lys Gly Leu Ile Asn Val Gln Ala
161                260                265                270
164 Ala Ala Gln
165                275
168 <210> SEQ ID NO: 8
169 <211> LENGTH: 49
170 <212> TYPE: PRT
171 <213> ORGANISM: Bacillus
173 <400> SEQUENCE: 8
175 Gly Gly Pro Thr Gly Ser Thr Ala Leu Lys Thr Val Val Asp Lys Ala
176 1                5                10                15
179 Val Ser Ser Glu Gly Ser Ser Gly Ser Thr Ser Thr Val Gly Tyr Pro
180                20                25                30
183 Ala Lys Tyr Pro Phe Ser Ser Ala Gly Ser Glu Leu Asp Val Met Ala
184                35                40                45
187 Pro
191 <210> SEQ ID NO: 9
192 <211> LENGTH: 49
193 <212> TYPE: PRT
194 <213> ORGANISM: Bacillus subtilis DY
196 <400> SEQUENCE: 9
198 Gly Gly Pro Ser Gly Ser Thr Ala Leu Lys Gln Ala Val Asp Lys Ala
199 1                5                10                15
202 Tyr Ala Ser Ser Cys Ser Ser Gly Ser Gln Asn Thr Ile Gly Tyr Pro
203                20                25                30
206 Ala Lys Tyr Asp Phe Ser Ser Val Gly Ala Glu Leu Glu Val Met Ala
207                35                40                45
210 Pro
214 <210> SEQ ID NO: 10
215 <211> LENGTH: 49
216 <212> TYPE: PRT
217 <213> ORGANISM: Bacillus licheniformis
219 <400> SEQUENCE: 10
221 Gly Gly Pro Ser Gly Ser Thr Ala Met Lys Gln Ala Val Asp Asn Ala
222 1                5                10                15
225 Tyr Ala Arg Ser Gly Ser Ser Gly Asn Thr Asn Thr Ile Gly Tyr Pro
226                20                25                30
229 Ala Lys Tyr Asp Phe Ser Ser Val Gly Ala Glu Leu Glu Val Met Ala
230                35                40                45
233 Pro
237 <210> SEQ ID NO: 11
238 <211> LENGTH: 45
239 <212> TYPE: PRT
240 <213> ORGANISM: Bacillus alcalophilus PB92
242 <400> SEQUENCE: 11

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244 Gly Ser Pro Ser Pro Ser Ala Thr Leu Glu Gln Ala Val Asn Ser Ala
245 1          5          10          15
248 Thr Ser Arg Ser Gly Ala Gly Ser Ile Ser Tyr Pro Ala Arg Tyr Ala
249          20          25          30
252 Phe Ser Gln Tyr Gly Ala Gly Leu Asp Ile Val Ala Pro
253          35          40          45
256 <210> SEQ ID NO: 12
257 <211> LENGTH: 45
258 <212> TYPE: PRT
259 <213> ORGANISM: Bacillus YaB
261 <400> SEQUENCE: 12
263 Gly Ser Ser Ala Gly Ser Ala Thr Met Glu Gln Ala Val Asn Gln Ala
264 1          5          10          15
267 Thr Ala Ser Ser Cys Ala Gly Asn Val Gly Phe Pro Ala Arg Tyr Lys
268          20          25          30
271 Phe Ser Gln Tyr Gly Ala Gly Leu Asp Ile Val Ala Pro
272          35          40          45
275 <210> SEQ ID NO: 13
276 <211> LENGTH: 45
277 <212> TYPE: PRT
278 <213> ORGANISM: Bacillus lentus
280 <400> SEQUENCE: 13
282 Gly Ser Thr Ser Gly Ser Ser Thr Leu Glu Leu Ala Val Asn Arg Ala
283 1          5          10          15
286 Asn Asn Ala Thr Gly Arg Gln Gly Val Asn Tyr Pro Ala Arg Tyr Ser
287          20          25          30
290 Phe Ser Thr Tyr Gly Pro Glu Ile Glu Ile Ser Ala Pro
291          35          40          45
294 <210> SEQ ID NO: 14
295 <211> LENGTH: 46
296 <212> TYPE: PRT
297 <213> ORGANISM: Bacillus subtilis 168
299 <400> SEQUENCE: 14
301 Gly Thr Thr Ser Asp Ser Lys Ile Leu His Asp Ala Val Asn Lys Ala
302 1          5          10          15
305 Tyr Glu Gln Asp Gly Asn Gly Lys Pro Val Asn Tyr Pro Ala Ala Tyr
306          20          25          30
309 Ser Phe Ser Thr Thr Gly Asp Glu Val Glu Phe Ser Ala Pro
310          35          40          45
313 <210> SEQ ID NO: 15
314 <211> LENGTH: 50
315 <212> TYPE: PRT
316 <213> ORGANISM: Bacillus subtilis IFO3013
318 <400> SEQUENCE: 15
320 Gly Gly Pro Ser Asp Val Pro Glu Leu Glu Glu Ala Val Lys Asn Ala
321 1          5          10          15
324 Val Lys Asn Glu Gly Asp Gly Asp Glu Arg Thr Glu Glu Leu Ser Tyr
325          20          25          30
328 Pro Lys Ala Tyr Asn Phe Ser Asn Ala Asn Lys Glu Ile Asp Leu Val

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329          35          40          45
332 Ala Pro
333      50
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337 <211> LENGTH: 45
338 <212> TYPE: PRT
339 <213> ORGANISM: Thermoactinomyces vulgaris
341 <400> SEQUENCE: 16
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344 1          5          10          15
347 Trp Asn Lys Ala Gly Asn Thr Ala Pro Asn Tyr Pro Ala Tyr Tyr Ser
348          20          25          30
351 Phe Ser Thr Tyr Gly Ser Trp Val Asp Val Ala Ala Pro
352          35          40          45
355 <210> SEQ ID NO: 17
356 <211> LENGTH: 47
357 <212> TYPE: PRT
358 <213> ORGANISM: Dichelobacter nodosus
360 <400> SEQUENCE: 17
362 Gly Gly Gly Gly Gly Cys Ser Gln Asn Ser Gln Arg Met Ile Asp Lys
363 1          5          10          15
366 Thr Thr Asn Leu Glu Asn Gln Asp Ala Ser Arg Thr Trp Pro Ser Ser
367          20          25          30
370 Cys Asn Phe Ser Asn Tyr Gly Ala Arg Val His Leu Ala Ala Pro
371          35          40          45
374 <210> SEQ ID NO: 18
375 <211> LENGTH: 47
376 <212> TYPE: PRT
377 <213> ORGANISM: Xanthomonas campestris
379 <400> SEQUENCE: 18
381 Gly Gly Gly Gly Ser Cys Ser Thr Thr Met Gln Asn Ala Ile Asn Gly
382 1          5          10          15
385 Ala Val Ser Arg Asp Ala Ser Asn Val Ser Gly Ser Leu Pro Ala Asn
386          20          25          30
389 Cys Ala Tyr Ser Asn Phe Gly Thr Gly Ile Asp Val Ser Ala Pro
390          35          40          45
393 <210> SEQ ID NO: 19
394 <211> LENGTH: 58
395 <212> TYPE: PRT
396 <213> ORGANISM: Bacillus subtilis
398 <400> SEQUENCE: 19
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401 1          5          10          15
404 Trp Arg Ala Ala Thr Asp Leu Phe Ile Pro Gly Gly Pro Gly Ser Ile
405          20          25          30
408 Ala Asn Pro Ala Asn Tyr Pro Phe Ser Leu Gln Gly Pro Ser Pro Tyr
409          35          40          45
412 Asp Glu Ile Lys Pro Glu Ile Ser Ala Pro
413          50          55

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**VERIFICATION SUMMARY**

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Input Set : A:\Sequence.ST25.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date